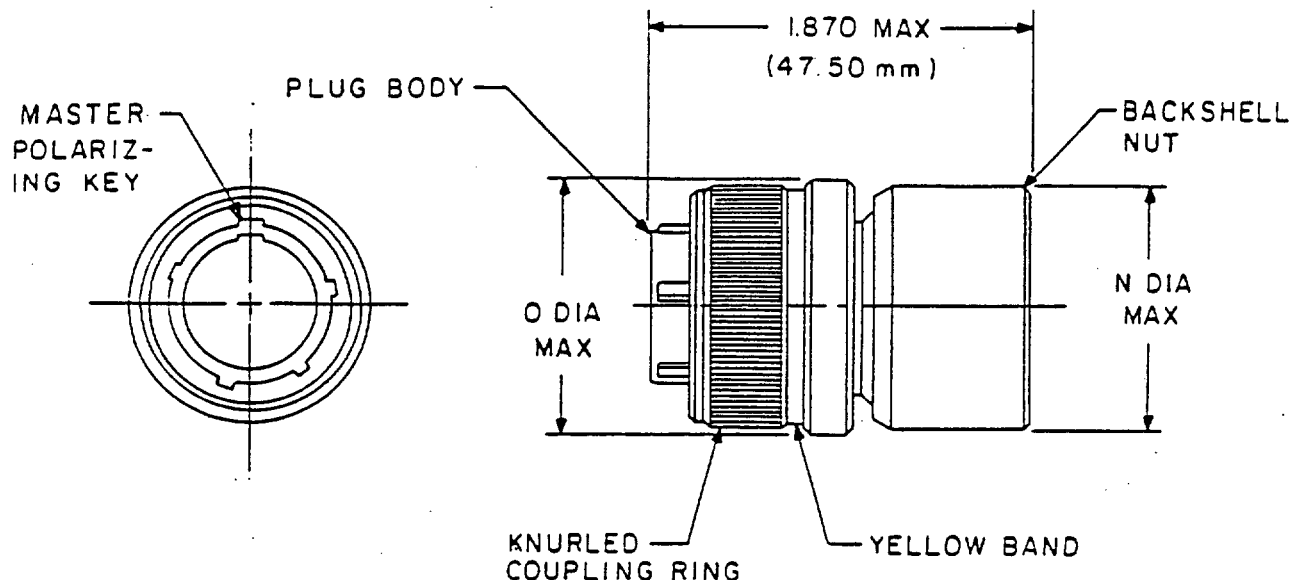


MILITARY SPECIFICATION SHEET

③ CONNECTORS, FIBER OPTIC, CIRCULAR, PLUG STYLE, MULTIPLE REMOVABLE TERMINI, SCREW THREADS, WITHOUT STRAIN RELIEF, ENVIRONMENT RESISTING

This specification is approved for use by all Departments and Agencies of the Department of Defense.

The requirements for acquiring fiber optic connectors described herein shall consist of this specification and the latest issue of MIL-C-28876.



Shell size	O dia max		N dia max	
	Inches	mm	Inches	mm
11	1.028	26.11	.960	24.38
13	1.141	28.98	1.085	27.55
15	1.263	32.08	1.255	31.88

NOTES:

1. Dimensions are in inches.
2. Metric equivalents are given for general information only.
3. Dimensions apply after plating.
4. Metric equivalents (mm) are in parentheses.

FIGURE 1. Plug connector.

③ denotes changes

REQUIREMENTS:

Dimensions and configurations: See figure 1 and MIL-C-28876, figures 3 and 8.

Ⓒ Weight:

<u>Shell size</u>	<u>Weight (ounces)</u>
11	2.0
13	2.5
15	3.0

Ⓒ Fiber optic cable:

Cable diameter: In accordance with DOD-C-85045/2 and DOD-C-85045/6.

Cable configuration: In accordance with DOD-C-85045/2 and DOD-C-85045/6.

Fiber diameter: In accordance with DOD-F-49291/3 and DOD-F-49291/4.

Fiber numerical aperture:

DOD-F-49291/3: 0.23 ± 0.02 at 850 nanometers.

DOD-F-49291/4: 0.29 ± 0.02 at 850 nanometers.

Fiber type: Multimode.

Fiber class: Graded index.

Insert arrangement: See MIL-STD-2163 for desired shell size.

Ⓒ Termini: Style P (pin) or S (socket). See MIL-T-29504/1 and MIL-T-29504/2. (For dummy terminus see MIL-T-29504/3.)

Ⓒ Cleaning procedures: Dampen lens tissue (paper wipe or cotton swab) with a small amount of isopropyl alcohol (minimum 90 percent strength). Gently wipe the face of the connector, removing any debris, particularly around the optical fiber, using clean lint-free lens tissue (paper wipe, cotton swab). Carefully dry the contact with a clean, dry, lint-free tissue.

Shell polarization: 1 through 6 keyway positions. See MIL-C-28876, figure 5.

Marking:

Part number: Marked on coupling ring of plug (see table I).

	<u>M28876/6</u>	<u>A</u>	<u>1</u>	<u>P</u>	<u>1</u>	
Basic part number	_____	_____	_____	_____	_____	Keying position number
Shell size designator letter	_____	_____	_____	_____	_____	Terminus style letter
Insert arrangement number	_____	_____	_____	_____	_____	

TABLE I. Part number designators.

Shell size	Designator	Insert arrangement number	Termini	Key position
11	A	1	P or S	1, 2, 3, 4, 5, or 6
13	B	1	P or S	1, 2, 3, 4, 5, or 6
15	C	1 or 2	P or S	1, 2, 3, 4, 5, or 6

Mating counterpart: Plug connectors specified in MIL-C-28876/1 through MIL-C-28876/5 and MIL-C-28876/11 through MIL-C-28876/14.

Installation and removal tools: As specified in MIL-I-81969/46 through MIL-I-81969/49, MIL-T-83523/6 and MIL-T-83523/8.

- ③ Qualified products listing, quality conformance, and periodic inspections: The following cables shall be used for qualified products listing, quality conformance, and periodic inspections:

<u>Shell size</u>	<u>Cables</u>
A	D85045/2-B2A or Siecor part number 277-R, 2-channel, 50 micron core, 125 clad, or equal.
B	D85045/2-C4A or Siecor part number 477-R, 4-channel, 100 micron core, 140 clad, or equal.
C	D85045/6-C8B or Belden part number 229626, 8-channel, 100 micron core, 140 clad, or equal.

- ③ For qualified products listing, quality conformance, and periodic inspections, dummy termini shall be used in all unused cavities.

Patent notice: The Government does not have a royalty-free license under the following patents for the benefit of manufacturers of the item, either for the Government or for use in equipment to be delivered to the Government:

<u>Patent no.</u>	<u>Patent expiration date</u>
US 65,032	11/17/2004
US 260,660	1/8/2002
US 376,866	2/12/2002
US 403,446	1/15/2002
US 751,204	2/7/2002
US 4,330,965	5/25/1999

CONCLUDING MATERIAL

Custodians:
 Army - CR
 Navy - EC
 Air Force - 85

Preparing activity:
 Navy - EC

Review activities:
 Army - MI
 Navy - AS, MC, SH
 Air Force - 11, 17, 19, 80, 90, 99
 NASA - NA
 DLA - ES

Agent:
 DLA - ES
 (Project 6060-0066-6)

User activities:
 Navy - OS, YD
 Air Force - 13, 14